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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/593,607	09/21/2006	Takeo Yajima	4724-0038WOUS	1929
35301 MCCORMICE	7590 03/07/201 K. PAULDING & HUB	EXAM	EXAMINER	
CITY PLACE II 185 ASYLUM STREET HARTFORD, CT 06103			HILTON, ALBERT	
			ART UNIT	PAPER NUMBER
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			MAIL DATE	DELIVERY MODE
			03/07/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Advisory Action Before the Filing of an Appeal Brief

Application No.	Applicant(s)	Applicant(s)	
10/593,607	YAJIMA, TAKEO	YAJIMA, TAKEO	
Examiner	Art Unit		
Albert Hilton	1716		

	Albert Hilton	1716					
The MAILING DATE of this communication appe	ears on the cover sheet with the o	orrespondence add	ress				
THE REPLY FILED 22 February 2011 FAILS TO PLACE THIS	APPLICATION IN CONDITION FO	R ALLOWANCE.					
 X The reply was filed after a final rejection, but prior to or on application, applicant must timely file one of the following application in condition for allowance; (2) a Notice of App for Continued Examination (RCE) in compliance with 37 C periods: 	replies: (1) an amendment, affidavil eal (with appeal fee) in compliance	t, or other evidence, w with 37 CFR 41.31; or	vhich places the r (3) a Request				
a) The period for reply expiresmonths from the mailing date of the final rejection.							
 The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire it 	dvisory Action, or (2) the date set forth in ater than SIX MONTHS from the mailing	date of the final rejection	on.				
Examiner Note: If box 1 is checked, check either box (a) or (MONTHS OF THE FINAL REJECTION. See MPEP 706.07(Examiner Note: If box 1 is checked, check either box (a) or (b). ONLY CHECK BOX (b) WHEN THE FIRST REPLY WAS FILED WITHIN TW						
Extensions of time may be obtained under 37 CFR 1.138(a). The date have been filled is the date for purposes of determining the period of the value for CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b) NOTICE OF APPEAL.	on which the petition under 37 CFR 1.1: tension and the corresponding amount of shortened statutory period for reply origing than three months after the mailing dat	of the fee. The appropria nally set in the final Office	ate extension fee be action; or (2) as				
2. The Notice of Appeal was filed on A brief in comp							
filing the Notice of Appeal (37 CFR 41.37(a)), or any extension thereof (37 CFR 41.37(e)), to avoid dismissal of the appeal. Since Notice of Appeal has been filed, any reply must be filed within the time period set forth in 37 CFR 41.37(a).							
AMENDMENTS	and the police of lotar in or	5111 41.67 (u).					
3. The proposed amendment(s) filed after a final rejection,			cause				
 (a) They raise new issues that would require further consideration and/or search (see NOTE below); 							
(b) They raise the issue of new matter (see NOTE belo		to a stance of the stance of the stance of the					
 (c) They are not deemed to place the application in bet appeal; and/or 	ter form for appeal by materially rec	lucing or simplifying ti	ne issues for				
(d) They present additional claims without canceling a	corresponding number of finally reje	cted claims.					
NOTE: (See 37 CFR 1.116 and 41.33(a)).	y						
4. The amendments are not in compliance with 37 CFR 1.12	21. See attached Notice of Non-Cor	mpliant Amendment (PTOL-324).				
5. Applicant's reply has overcome the following rejection(s)							
Newly proposed or amended claim(s) would be all non-allowable claim(s).		imely filed amendmer	nt canceling the				
7. For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is prov. The status of the claim(s) is (or will be) as follows:		be entered and an e	xplanation of				
Claim(s) allowed:							
Claim(s) objected to:							
Claim(s) rejected: <u>5-9 and 13</u> .							
Claim(s) withdrawn from consideration: <u>1-4, 10-12</u> . AFFIDAVIT OR OTHER EVIDENCE							
8. The affidavit or other evidence filed after a final action, but	t before or on the date of filing a No	tice of Anneal will not	t he entered				
because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).	d sufficient reasons why the affidavi	t or other evidence is	necessary and				
9. The affidavit or other evidence filed after the date of filing							
entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary							
10. The affidavit or other evidence is entered. An explanatio	n of the status of the claims after er	ntry is below or attach	ed.				
REQUEST FOR RECONSIDERATION/OTHER							
 The request for reconsideration has been considered bu <u>See continuation sheet.</u> 	t does NOT place the application in	condition for allowan	ce because:				
12. Note the attached Information Disclosure Statement(s). (PTO/SB/08) Paper No(s).							
13. Other:							
/Parviz Hassanzadeh/	(Allege Little of						
Supervisory Patent Examiner, Art Unit 1716	/Albert Hilton/ Examiner, Art Unit 1716						
	Examiner, Art Offit 1716						

U.S. Patent and Trademark Office PTOL-303 (Rev. 08-06)

Regarding claim 9, applicant argues that incorporating the pump (16) and nozzle (18) of Yajima into a single body would eliminate the advantage that the solution delivery path (17) can be easily exchanged to allow the chemical supply system to be easily maintained.

The examiner maintains that incorporating the nozzle (18) of Yajima directly into the main body (1) of Yajima would entirely eliminate the need for those portions of the delivery path (17) that extend outside the main body (1). The examiner argues that maintaining the supply system would, in fact, greatly simplify maintenance of the system, as there would be no need to exchange and maintain the external sections of path (17). While portions of the delivery path (17) located inside the main body (1) would still need be maintained, these portions would be no more difficult to maintain with an integrated nozzle and main body than they would be with a separated nozzle and main body.

Applicant argues that the loogal reference teaches an integrated pump and nozzle only in the context of dispensing a highly viscous liquid, and is therefore not analogous to the photoresist dispenser of Yajima. The examiner maintains that both Yajima and Isogal relate to the field of using a pump/nozzle system to dispense a liquid, and as such would be reasonably pertinent. Further, the examiner maintains that even though the liquid dispensed by Yajima is less viscous that that of Isogal, one of ordinary skill in the art would still appreciate that the advantages of reduced flow resistance would still be apolicable to the Yajima system.

Applicant argues that Kawata's double-tube structure is only disposed on a secondary side of a chemical susplying means, and would not teach or suggest modifying the apparatus of Yajima to provide a double tube containing a primary-side chemical fluight flow path connected with one end of a pump. The examiner maintains that the test for obviousness is not whether the features of a secondary reference may be bodily incorporated into the structure of the primary reference, nor is it that the claimed invention must be expressly suggested in any one or all of the references. Rather, the test is what the combined teachings of the references would have suggested to those of ordinary skill in the art. See in re Keller, 642 E24 413, 208 USPG 871 (CCPA 1981). Further, the examiner argues that Kawata teaches the placement of the double-tube structure along the entire flow path of the chemical supply pipe (Kawata: column 4, lines 17-23), and that one of ordinary skill in the art would add the double tube of Kawata to the entire flow shot of the system of Yajima. which includes the cump.

Applicant argues that the constant-temperature water of Kawata flows in the opposite direction of the resist liquid, which therefore teaches away from a device in which the constant-temperature water flows in the same direction as the resist liquid sexaminer maintains that the Kawata reference discloses one embodiment (Fig. 1) in which the constant-temperature water and resist liquid flow in the same direction. Further, attening the flow direction of the constant-temperature water would represent an obvious renagement of parts that would fail to produce any new and unexpected benefit, as the heat exchange between inner and outer tubes would still occur regardless of which direction he liquids are flowing.

Applicant argues that the adaptor of Butler requires an outwardly-vented air space, and therefore Butler requires a vented air space surrounding the temperature control water flow path. The examiner argues that Butler is relieful upon for its testing of a coupling to join two fluid flow paths, and that other features of Butler, such as a vented air space around the temperature control water, would not need to be bodily incorporated into the apparatus of Yajima in view of Isogal and Kawata. The vented air space of Butler is used to prevent leakage when the heat transfer fluid is under high pressure, and where a leak could potentially introduce toxic chemicals into drinking water (Butler, paragraph 12). As neither of these conditions are present in Yajima in view of Isogal and Kawata, one of ordinavis will in the art would recognize that it would not be necessary to include the air-vented space in the combination of Butler with Yajima in view of Isogal and Kawata.

Applicant argues that the T-adapter of Buller features two flow paths that are branched apart outside a water tank, and that applicant's invention operates in an opposite manner to that of the Butler adapter. Further, applicant argues that Butler does not teach how to connect a T-adapter to a pump. The examiner maintains that Butler is only relied upon for its teaching of an adapter for joining two flow paths to facilitate a heat exchange wherein a liquid from an external tube is coupled with the flow path of a second liquid (see paragraph 9 of the final office action). The Butler reference is not relied upon for its placement of a water tank or pump, and one of ordinary skill in the art would recognize that the location of the pump in the Butler reference would not need to be bodily incorporated into the apparatus of Yajima in view of Isoada and Kawata.